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90-DEGREE PHASE SHIFTER AND IMAGE ELIMINATING MIXER
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90-DEGREE PHASE SHIFTER AND IMAGE ELIMINATING MIXER AND RECEIVER USING THE SAME

Patent Number: JP2002033635
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Applicant(s): SHARP CORP
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Abstract

PROBLEM TO BE SOLVED: To solve a problem of a conventional 90-degree phase shifter that cannot have met needs of acquisition of a phase difference around 90-degrees over a wide frequency range because the frequency range of an input signal to obtain an output signal with a phase difference around 90-degrees is not always enough in the conventional 90-degree phase shifter.

SOLUTION: In the 90-degree phase shifter 10 where two output signals whose phase difference is nearly 90-degrees from a 1st multi-stage phase shift circuit 14 consisting of series connection of phase shift circuits 14-1 to 14-n and a 2nd multi-stage phase shift circuit 15 consisting of series connection of phase shift circuits 15-1 to 15-n, each phase characteristic of the 1st and 2nd multi-stage phase shift circuits 14, 15 has a difference and each phase characteristic of each of the phase shift circuits 14-1 to 14-n and the phase shift circuits 15-1 to 15-n has a difference respectively.

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